

# INTERNATIONAL SEARCH REPORT

Int'l Application No

PCT/NL2004/000502

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A01N3/02 A01N25/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CAB Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Section Ch, Week 200209 Derwent Publications Ltd., London, GB; Class A23, AN 2002-064483 XP002305175 & JP 2001 278937 A (MITSUI CHEM INC) 10 October 2001 (2001-10-10) abstract	1-4, 10, 15, 18
Y	-----	17
X	WO 99/55154 A (STAR TINUS WILLEM HENDRIK ; VONK HANS (NL)) 4 November 1999 (1999-11-04) page 5, line 14 - line 27 page 4, line 12 - line 17 page 2, line 9 - page 3, line 33 page 1, line 1 - line 6	1, 3, 7-10, 12, 15-18
Y	----- -/-	1-18

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- \*P\* document published prior to the international filing date but later than the priority date claimed

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- \*&\* document member of the same patent family

Date of the actual completion of the international search

12 November 2004

Date of mailing of the international search report

24/11/2004

Name and mailing address of the ISA

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## INTERNATIONAL SEARCH REPORT

International Application No

PCT/NL2004/000502

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DATABASE WPI Section Ch, Week 198925 Derwent Publications Ltd., London, GB; Class A97, AN 1989-182747 XP002305176 & JP 01 121201 A (DAICEL CHEM IND LTD) 12 May 1989 (1989-05-12) abstract -----	1,2,5,6
Y	DATABASE WPI Section Ch, Week 199717 Derwent Publications Ltd., London, GB; Class G04, AN 1997-186861 XP002267063 & JP 09 047154 A (FUSHIMI SEISAKUSHO KK) 18 February 1997 (1997-02-18) abstract -----	1,2,5,6
Y	US 5 580 975 A (TADA SUGURU) 3 December 1996 (1996-12-03) column 1, line 47 - line 54 column 3, line 64 - column 4, line 6 column 4, line 40 - line 51 -----	1-11, 13-18
Y	US 5 315 782 A (BARCLAY WILLIAM M ET AL) 31 May 1994 (1994-05-31) column 3, line 38 - line 41 column 2, line 22 - line 66 -----	17
Y	GB 1 576 999 A (CENTRE NAT EXPLOIT OCEANS) 15 October 1980 (1980-10-15) page 2, line 3 - line 29 page 2, line 65 - page 3, line 11 -----	7,12
X	US 4 985 061 A (HUGHES JOHN) 15 January 1991 (1991-01-15) column 10, line 23 - line 42 column 3, line 8 - column 4, line 2 -----	1-3,10, 15,16,18
X	DATABASE WPI Section PQ, Week 198607 Derwent Publications Ltd., London, GB; Class P27, AN 1986-046737 XP002267064 & SE 8 403 211 A (NILSSON-ENGEROTH B) 15 December 1985 (1985-12-15) abstract -& SE 8 403 211 A 15 December 1985 (1985-12-15) page 3, paragraphs 5,6 page 4, paragraph 3 -----	1,3-7, 10-12, 15,18

-/-

## INTERNATIONAL SEARCH REPORT

Inte' n Application No

PCT/NL2004/000502

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Section Ch, Week 198926 Derwent Publications Ltd., London, GB; Class A11, AN 1989-190487 XP002305177 & JP 01 130726 A (DAICEL CHEM IND LTD) 23 May 1989 (1989-05-23) abstract -----	1-6,10, 11,18
X	DATABASE WPI Section Ch, Week 200367 Derwent Publications Ltd., London, GB; Class A97, AN 2003-705328 XP002305178 & KR 2003 038 964 A (UNID CO LTD) 17 May 2003 (2003-05-17) abstract -----	1-6,10, 11,18
X	DATABASE CHEMABS 'Online' CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; F.ESPOSITO ET AL.: "Water sorption in cellulose based hydrogels" XP002305174 retrieved from STN-INTERNATIONAL Database accession no. 124:263718 abstract & POLYMERIC MATERIALS SCIENCE AND ENGINEERING, vol. 74, 1996, pages 368-369, -----	1,3-6, 10,11,18
X	EP 0 604 862 A (ELCHROM LTD) 6 July 1994 (1994-07-06) claims 1-15 -----	1,3-6, 10,18
X	WO 96/15154 A (PROCTER & GAMBLE ; FORNASARI GIANCARLO (IT); TORRI GIANGIACOMO (IT); C) 23 May 1996 (1996-05-23) the whole document -----	1-6,10, 11,15, 16,18
P,X	WO 03/101196 A (Timmermans Johannes Wilhelmus ;TNO (NL); Montijn Roy Christiaan (N) 11 December 2003 (2003-12-11) page 2, line 13 - page 3, line 2 page 3, line 19 - page 4, line 19 page 6, line 5 - line 9 page 6, line 29 - page 11, line 10 -----	1-18
A	US 5 679 617 A (HANAFUSA MIHO ET AL) 21 October 1997 (1997-10-21) the whole document -----	1-18
		-/-

## INTERNATIONAL SEARCH REPORT

Inte<sup>l</sup> Application No  
PCT/NL2004/000502

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/15702 A (AGRES LTD ; JOHNSON VON WALTER (NZ); PEARSON JOAN FRANCES (NZ)) 28 February 2002 (2002-02-28) page 4, line 18 - page 5, line 11 page 7, line 15 - page 8, line 2 -----	1-18
A	DATABASE WPI Section Ch, Week 200281 Derwent Publications Ltd., London, GB; Class A11, AN 2002-743661 XP002267062 & JP 2002 138162 A (INOAC CORP KK) 14 May 2002 (2002-05-14) abstract -----	1-18
A	US 5 009 890 A (DIPIPPO ASCANIO G) 23 April 1991 (1991-04-23) column 2, line 12 - column 4, line 8 -----	1-18

## INTERNATIONAL SEARCH REPORT

Inte  
nal Application No

PCT/NL2004/000502

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
JP 2001278937	A	10-10-2001		NONE		
WO 9955154	A	04-11-1999	NL AT AU AU CA DE DE EP JP WO NZ US	1008986 C2 226788 T 754343 B2 3446099 A 2328852 A1 69903723 D1 69903723 T2 1073330 A1 2003524584 T 9955154 A1 507466 A 2003131528 A1		26-10-1999 15-11-2002 14-11-2002 16-11-1999 04-11-1999 05-12-2002 31-07-2003 07-02-2001 19-08-2003 04-11-1999 28-02-2003 17-07-2003
JP 1121201	A	12-05-1989	JP JP	2009914 C 7045361 B		02-02-1996 17-05-1995
JP 9047154	A	18-02-1997		NONE		
US 5580975	A	03-12-1996	JP JP NL	2509083 B2 7082101 A 9401194 A		19-06-1996 28-03-1995 16-02-1995
US 5315782	A	31-05-1994		NONE		
GB 1576999	A	15-10-1980	FR AU AU BR DK JP NL NO SE US	2384010 A1 517059 B2 3387878 A 7801539 A 112978 A 53113836 A 7802839 A 780814 A 7802890 A 4297137 A		13-10-1978 09-07-1981 13-09-1979 10-10-1978 16-09-1978 04-10-1978 19-09-1978 18-09-1978 16-09-1978 27-10-1981
US 4985061	A	15-01-1991	US US	4906276 A 4985062 A		06-03-1990 15-01-1991
SE 8403211	A	15-12-1985		NONE		
JP 1130726	A	23-05-1989	JP JP	2043611 C 7071627 B		09-04-1996 02-08-1995
KR 2003038964	A	17-05-2003		NONE		
EP 0604862	A	06-07-1994	US AT CA DE DE EP JP JP US US	5371208 A 184614 T 2112450 A1 69326422 D1 69326422 T2 0604862 A2 3492405 B2 6316592 A 5541255 A 5767196 A		06-12-1994 15-10-1999 01-07-1994 21-10-1999 27-07-2000 06-07-1994 03-02-2004 15-11-1994 30-07-1996 16-06-1998

## INTERNATIONAL SEARCH REPORT

Inte

ntal Application No

PCT/NL2004/000502

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 9615154	A 23-05-1996	IT AU CA EP JP WO US	T0940891 A1 4281996 A 2205026 A1 0791015 A1 10509753 T 9615154 A1 5780616 A	10-05-1996 06-06-1996 23-05-1996 27-08-1997 22-09-1998 23-05-1996 14-07-1998
WO 03101196	A 11-12-2003	NL WO	1020716 C2 03101196 A1	02-12-2003 11-12-2003
US 5679617	A 21-10-1997	JP NL NL	8198702 A 1002194 C2 1002194 A1	06-08-1996 26-01-1999 31-07-1996
WO 0215702	A 28-02-2002	NZ AU EP WO US	506484 A 8456001 A 1315423 A1 0215702 A1 2004102328 A1	31-01-2003 04-03-2002 04-06-2003 28-02-2002 27-05-2004
JP 2002138162	A 14-05-2002	NONE		
US 5009890	A 23-04-1991	US US US	6033675 A 5529784 A 5384125 A	07-03-2000 25-06-1996 24-01-1995